

D
cont'd material and combinations thereof; and

a flowfield[s] formed in the porous, electrically conducting member.

7. (Three Times Amended) A bipolar plate for electrochemical cells, comprising:

D2 a porous, electrically conducting sheet selected from the group consisting of expanded metal mesh, metal foam, conducting polymer foam, porous conductive carbon material and combinations thereof;

SUB E7 a gas impermeable material disposed within a minor portion of the sheet to form a gas barrier; and

a flowfield[s] formed in the [porous, electrically conducting member] sheet.

Please enter the following new claims:

D3 SUB E7 42. The bipolar plate of claim 7, wherein the flowfield is a gas flowfield.—

43. The bipolar plate of claim 7, wherein the flowfield is a liquid flowfield.—

D3 44. A bipolar plate for electrochemical cells, comprising:

a porous, electrically conducting sheet selected from the group consisting of expanded metal mesh, metal foam, conducting polymer foam, porous conductive carbon material and combinations thereof; and

a gas impermeable material disposed within a first portion of the sheet to form a gas barrier leaving a second portion of the sheet to serve as a flowfield.